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PTO-1449 REPRODUCED

ATTORNEY DOCKET NO.
2937.1000-004

APPLICATION NO.
09/821,908

SUPPLEMENTAL INFORMATION DISCLOSURE
PATENT CITATION IN AN APPLICATION

March 25, 2004

Use several sheets if necessary)

FIRST NAMED INVENTOR
Jonathan Stern

FILING DATE
March 30, 2001

EXAMINER

~~Not Assigned~~

CONFIRMATION NO.
7680

GROUP

~~2152~~

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
AD2	US 6,349,309 B1	02-19-2002	Aggarwal <i>et al.</i>	
AE2	US 6,640,224 B1	10-28-2003	Chakrabarti	
AF2	US 6,618,717 B1	09-09-2003	Karadimitriou <i>et al.</i>	
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EXAMINER

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PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 2937.1000-004	APPLICATION NO. 09/821,908	
<p>SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION</p> <p>April 29, 2003</p> <p>(Use several sheets if necessary)</p>		APPLICANT Jonthan Stern, <i>et al.</i>		
		FILING DATE March 30, 2001	CONFIRMATION NO. 7680	GROUP 2152 2/42

U.S. PATENT DOCUMENTS				
EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME
X	AA2	X	X	X
X	AB2	X	X	X
POA	AC2	6,253,198 B1	06/26/01	Perkins
	AD2			
	AE2			
	AF2			
	AG2			
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	AC4			

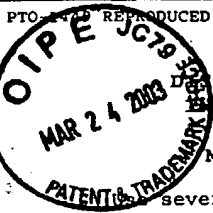
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PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 2937.1000-004		APPLICATION NO. 09/821,908					
INFORMATION DISCLOSURE CITATION IN AN APPLICATION				APPLICANT Jonathan Stern, et al.					
March 31, 2003 (Use several sheets if necessary)				FILING DATE March 30, 2001	CONFIRMATION NO. 7680				
GROUP 2152-242									
U.S. PATENT DOCUMENTS									
EXA M- INER INI- TIAL		DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE		NAME				
<div>RECEIVED APR 07 2003 Technology Center 2100</div>									
FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO		
AP		WO 99/67728 -	29 Dec 99	PCT					
AQ		WO 00/33216 -	08 Jun 00	PCT					
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)									
AX3		International Search Report PCT/US01/23343, 3/19/03, 4_pp.							
AY3		Guan, T. and K-F Wong, "KPS: a Web information mining algorithm," Computer Networks 31:11-16 (1495-1507) 5/17/99, Elsevier Science Publishers B.V., Amsterdam.							
AZ3		Miller, R.C. and K. Bharat, "SPHINX: a framework for creating personal, site specific Web crawlers," Computer Networks and ISDN Systems, 30:1-7 (119-130) 4/1/98, North Holland Publishing, Amsterdam.							
AA4		Powell, T.A. et al., HTML Programmer's Reference, (Appendices A and B), Osborne/McGraw-Hill, 1998 (pp. 355-377).							
EXAMINER		DATE CONSIDERED							

 <p>PTO REPRODUCED</p> <p>INFORMATION CLOSURE CITATION AN APPLICATION</p> <p>March 17, 2003</p> <p>(several sheets if necessary)</p>		ATTORNEY DOCKET NO. 2937.1000-004		APPLICATION NO. 09/821,908												
		APPLICANT Jonathan Stern, et al.														
		FILING DATE March 30, 2001		CONFIRMATION NO. 7680		GROUP 2152-2142										
U.S. PATENT DOCUMENTS																
EXA M- INER INI- TIAL	AB2	DOCUMENT NUMBER 5,764,906	ISSUE DATE / PUBLICATION DATE 06/09/98	NAME Edelstein et al.												
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FOREIGN PATENT DOCUMENTS																
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO									
	AN	AU-A-53031/98 -	27 Aug 98	Australia												
	AO	10-320315 -	04 Dec 98	Japan												
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)																
									AV3	PCT International Search Report PCT/US01/41515, 2/28/03, 4 pp. -						
									AW3	Langer, A. and J.S. Rosenschein, "Using Distributed Problem Solving to Search the Web," Proc. 4th Int. Conf. on Autonomous Agents, ACM, USA, June 3-7, 2000, pp. 197-198.						
EXAMINER		DATE CONSIDERED														
A. Edelstein		8/2/2004														

Sheet 1 of 1

PTO FORM 100 REPRODUCED		ATTORNEY DOCKET NO. 2937.1000-004		APPLICATION NO. 09/821,908	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION		APPLICANT Jonathan Stern, et al.			
February 19, 2003		FILING DATE March 30, 2001		CONFIRMATION NO. 7680	
(several sheets if necessary)				GROUP 2152 2/42	
U.S. PATENT DOCUMENTS					
EXAM- INER INITIAL		DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME	
AK		5,319,777	06/07/94	Perez	
AA2		5,813,006	09/22/98	Polnerow et al.	
RECEIVED FEB 25 2003 Technology Center 2100					
FOREIGN PATENT DOCUMENTS					
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS
AL		WO 99/67728 -	29 Dec 99	PCT	
AM		AU-A-53031-98 -	27 Aug 98	Australia	
AN					
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
AU2		PCT International Search Report PCT/US01/22430, 1/17/03, 4 pp.			
AV2		PCT International Search Report PCT/US01/22381, 02/12/03, 3 pp.			
AW2		PCT International Search Report PCT/US01/24162, 02/13/03, 4 pp.			
AX2		Ball, T. and F. Douglas, "An Internet Difference Engine and its Applications," Proceedings of COMPCON '96, IEEE Comp. Soc. Press, 2/25/96, p. 71-76.			
AY2		Freitag, D., "Machine Learning for Information Extraction in Informal Domains," Machine Learning 39:2/3 (169-202), May/June 2000, p. 169-202.			
AZ2		Kjell, B., "Authorship Attribution of Text Samples Using Neural Networks and Bayesian Classifiers," IEEE Int. Conf. on Systems, Man, and Cybernetics, Vol. 2, October 5, 1994, pp. 1660-1664.			
AU3		Singhal, M., "Update Transport: A New Technique for Update Synchronization in Replicated Database Systems," IEEE Transactions on Software Engineering 16:12 (1325-1336), 12/1/90.			
EXAMINER		DATE CONSIDERED			

ATTORNEY DOCKET NO.
2937.1000-004APPLICATION NO.
09/821,908INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

January 9, 2003

(Use several sheets if necessary)

APPLICANT
Jonathan Stern, et al.FILING DATE
3/30/01CONFIRMATION NO.
7680GROUP
2152-2142

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME
				JAN 17 2003 Technology Center 2100
AB		5,895,470	04/20/99	Pirolli, et al.
AC		5,918,236	06/29/99	Wical, K.
AD		5,924,090	07/13/99	Krellenstein, M.F.
AE		6,094,653	07/25/00	Li, et al.
AF		6,112,203	08/29/00	Bharat, et al.
AG		6,122,647	09/19/00	Horowitz, et al.
AH		6,260,033	07/10/01	Tatsuoka, C.M.
AI		6,336,108	01/01/02	Thiesson, et al.
AJ		6,418,432	07/09/02	Cohen, et al.

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
	AL						
	AM						
	AN						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AW	ABCNEWS.com, April 28, 1999. http://web.archive.org/web/19990428185649/abcnews.go.com/
AX	COMPAQ, April 22, 1999. http://web.archive.org/web/19990422222242/www.compaq.com/
AY	Dwi H. Widyanoro, Thomas R. Ioerger, John Yen. "An Adaptive Algorithm for Learning Changes in User Interests". Nov. 1999. ACM. pg. 405-412.
AZ	Soumen Chakrabarti, Byron Dom, Piotr Indyk. "Enhanced hypertext categorization using hyperlinks". 1998 ACM. pgs. 307-318.
AR2	Sahami, M. et al., "SONIA: A Service for Organizing Networked Information Autonomously," 3rd ACM Conference on Digital Libraries, Digital 98 Libraries, June 23-26, 1998, pp. 200-209.
AS2	Nir Friedman, Moises Goldszmidt, "Building Classifiers using Bayesian Networks". From Proceedings of the National Conference on Artificial Intelligence (AAAI96). pgs. 1277-1284.

EXAMINER

DATE CONSIDERED

8/2/2004

ATTORNEY DOCKET NO.
2937.1000-004APPLICATION NO.
09/821,908INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

January 9, 2003

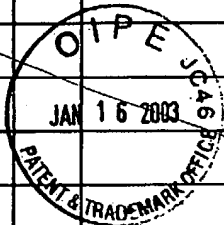
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APPLICANT
Jonathan Stern et al.FILING DATE
3/30/01CONFIRMATION NO.
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U. S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME

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JAN 17 2003
Technology Center 2100

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AT2	Pazzani, M. et al., "Learning from hotlists and coldlists: Towards a WWW information filtering and seeking agent," <i>Proc. International Conference on Tools with Artificial Intelligence</i> , Los Alamitos, CA, 1994, pp. 492-495.
AU2	Lam, W. and K. Low, "Automatic Document Classification Based on Probabilistic Reasoning: Model and Performance Analysis," 1996 IEEE Conference on Computational Cybernetics and Simulation, Orlando, FL - 1997, pp. 2719-2723.
AV2	PCT International Search Report PCT/US01/22385, 12/18/02 (4 pp) .

EXAMINER

DATE CONSIDERED

8/2/2004

PTO-1449 REPRODUCED				ATTORNEY DOCKET NO. 2937.1000-004		APPLICATION NO. Not assigned	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION March 30, 2001 (Use several sheets if necessary)				APPLICANT Jonathan Stern et al.			
				FILING DATE March 30, 2001		GROUP 2142 Not assigned	
U.S. PATENT DOCUMENTS							
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
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AT							
EXAMINER <i>W. D. Harrell</i>				DATE CONSIDERED <i>8/2/2004</i>			



PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 2937.1000-004		APPLICATION NO. 09/821,908	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION		APPLICANT Jonathan Stern et al.		RECEIVED	
May 20, 2001		FILING DATE 03/30/01		GROUP MAY 30 2001	
(Use several sheets if necessary)		U.S. PATENT DOCUMENTS		Technology Center 2100	

EXAM- INER INI- TIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
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FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO	
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AN							
AO							
AP							
AQ							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
AR	Chakrabarti, S. et al., "Focused crawling: a new approach to topic-specific Web resource discovery," <i>Proceedings of 8th International World Wide Web Conference, 1999</i> (pp. 545-562).
AS	Cho, J. et al., "Efficient Crawling through URL Ordering," <i>Proceedings of Seventh International Web Conference, 1998</i> (20 pp.)
AT	Rennie, J. and A. McCallum, "Using reinforcement learning to spider the Web efficiently," <i>Proceedings of ICML-99, 1999</i> (16 pp.)
AG	McCallam, A. et al., "A Machine Learning Approach to Building Domain-Specific Search Engines," <i>Proceedings of the Sixteenth International Joint Conference on Artificial Intelligence, 1999</i> (6 pp.)

EXAMINER	DATE CONSIDERED
<i>Adrian S. Ham</i>	8/2/2004

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